



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-------------|----------------------|---------------------------|------------------------|
| 10/723,301 | 11/24/2003 | David Anthony Tanner | 50325-0846(Seq. No. 8505) | 9486 |
| 29989 7590 09/27/2007 HICKMAN PALERMO TRUONG & BECKER, LLP 2055 GATEWAY PLACE SUITE 550 SAN JOSE, CA 95110 | | | EXAMINER DUONG, OANH L | |
| | | | ART UNIT 2155 | PAPER NUMBER |
| | | | MAIL DATE 09/27/2007 | DELIVERY MODE PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/723,301

Applicant(s)

TANNER ET AL.

Examiner

Oanh Duong

Art Unit

2155

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 November 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-54 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-54 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>2/24/04 & 5/19/06</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1-54 are presented for examination.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-54 are rejected under 35 U.S.C. 102(e) as being anticipated by Kidder et al. ("Kidder"), US 2004/0031030 A1.

Regarding claim 1, Kidder teaches method for managing configuration data for a router (*i.e., configure and manage a particular type of network device such as router, page 5 paragraph [0109]*), the method comprising the machine-implemented steps of:

querying the router to determine a plurality of functional areas supported by the router (*i.e., "to manage a network device, the NMS interprets data gathered by programs running on each network device relevant to network configuration, security, accounting, statistics, and fault logging and presents the interpretation of this data to the network administrator", page 5 paragraph [0109]*);

Art Unit: 2155

generating and displaying a plurality of user interface objects on a graphical user interface (*i.e.*, *GUI displays FCAPS status bars (i.e., user interface object), page 21 paragraph 0232J*)), wherein each user interface object from the plurality of user interface objects corresponds to configuration data for one of the plurality of functional areas supported by the router (*i.e.*, *GUI provides status button for each of the five FCAPS/functional- area), Fig. 7d page 21 paragraph [0229]*); and

in response to detecting a user selection of a particular user interface object from the plurality of user interface objects, allowing the user to modify the configuration data corresponding to the particular user interface object to generate modified configuration data (*i.e.*, *administrator may select one of the FCAPS branch to cause status window 897 to display tabs/folders of data corresponding to the selected branch, Fig. 7d, page 21 paragraph [0234]-page 22 paragraph [0237]*); and

sending the modified configuration data to the router (*i.e.*, *"download the configuration change to the operational network device"*, page 20 paragraph [0223]).

Regarding claim 2, this claim comprises a machine-readable medium for managing configuration data for a router, the machine-readable medium carrying instructions which, when executed by one or more processors, cause the one or more processors to perform a method claim 1, discussed above, same rationale of rejection is applicable.

Regarding claim 3, this claim comprise an apparatus for managing configuration data for a router, the apparatus comprising a memory storing instructions which, when executed by one or more processors, cause the one or more processors to perform a method claim 1, discussed above, same rationale of rejection is applicable.

Regarding claim 4, Kidder teaches a method for managing network device configuration data (*i.e., configure and mange a particular type of network device such as router, page 5 paragraph [0109]*), the method comprising the machine-implemented steps of:

determining a plurality of functional areas supported by a network device (*i.e., "to manage a network device, the NMS interprets data gathered by programs running on each network device relevant to network configuration, security, accounting, statistics, and fault logging and presents the interpretation of this data to the network administrator", page 5 paragraph [0109]*); and

generating and displaying a plurality of user interface objects on a graphical user interface (*i.e., GUI displays FCAPS status bars (i.e., user interface object), page 21 paragraph 0232]*), wherein each user interface object from the plurality of functional areas supported by the network device (*i.e., GUI provides status button for each of the five FCAPS/functional- area to represent a single network device), Fig. 7d page 21 paragraphs [0229] and [0232]*).

Regarding claim 5, Kidder teaches the method as recited in claim 4, further comprising the machine-implemented step of selecting the visual appearance of a particular user interface object from the plurality of user interface objects to reflect a state of the configuration data corresponding to the particular user interface object (page 19 paragraph [0214]).

Regarding claim 6, Kidder teaches the method as recited in claim 4, further comprising the machine-implemented step of in response to detecting a user selection of a particular user interface object from the plurality of user interface objects, retrieving, from the network device, configuration data corresponding to the particular user interface object, allowing the user to modify the configuration data corresponding to the particular user interface object to generate modified configuration data (*Fig. 7d, page 21 paragraph [0234]-page 22 paragraph [0237]*); and sending only the modified configuration data to the network device (page 20 paragraph [0223]).

Regarding claim 7, Kidder teaches the method as recited in claim 6, further comprising the machine-implemented step of launching one or more of a plurality of application programs to allow the user to modify the configuration data corresponding to the particular user interface object (page 5 paragraph [0110]).

Regarding claim 8, Kidder teaches the method as recited in claim 6, further comprising the machine-implemented step of changing the visual appearance of the

Art Unit: 2155

particular user interface object to indicate to the user that the configuration data corresponding to the particular user interface object has been modified (page 20 paragraph [0219]).

Regarding claim 9, Kidder teaches the method as recited in claim 6, further comprising the machine-implemented step of in response to detecting a user selection of another user interface object associated with committing changes in configuration data on network devices, sending to the network device a request for the network device to implement the modified configuration data (page 12 paragraph [0163] and page 14 paragraph [0175]).

Regarding claim 10, Kidder teaches the method as recited in claim 9, further comprising the machine-implemented step of in response to receiving a notification from the network device that the modified configuration data has been implemented by the network device, changing the visual appearance of the particular user interface object to indicate to the user that the modified configuration data has been implemented by the network device (page 12 paragraph [0162]).

Regarding claim 11, Kidder teaches the method as recited in claim 4, further comprising the machine-implemented step of in response to determining that a particular functional area of the configuration data has been modified after the particular functional area of configuration data was received from the network device, changing

Art Unit: 2155

the visual appearance of a particular user interface object from the plurality of user interface objects to visually indicate to a user that the particular functional area of the configuration data has been modified after the particular functional area of configuration data was received from the network device (page 12 paragraph [0162]).

Regarding claim 12, Kidder teaches the method as recited in claim 4, wherein the step of determining a plurality of functional areas supported by a network device includes querying the network device to determine the plurality of functional areas supported by a network device (*page 5 paragraph [0109]*).

Regarding claim 13, Kidder teaches the method as recited in claim 4, wherein the step of determining a plurality of functional areas supported by a network device includes determining a plurality of functional areas supported by a network device and for which the network device and a client have compatible configuration application program interfaces (*page 5 paragraph [0110]*).

Regarding claim 14, Kidder teaches the method as recited in claim 4, further comprising the machine-implemented steps of:

in response to detecting a user selection of a particular user interface object from the plurality of user interface objects, retrieving, from the network device, configuration data corresponding to the particular user interface object, displaying the configuration data on a graphical user interface (*page 21 paragraph [0234]*); and

Art Unit: 2155

in response to detecting that the configuration data retrieved from the network device is no longer consistent with configuration data implemented on the network device, changing the visual appearance of the particular user interface object to indicate that the configuration data retrieved from the network device is no longer consistent with configuration data implemented on the network device (page 20 paragraph [0219]).

Regarding claim 15, Kidder teaches a machine-readable medium for managing network device configuration data, the machine-readable medium carrying instructions which, when executed by one or more processors, cause the one or more processors to perform the steps of:

determining a plurality of functional areas supported by a network device (*i.e.*, “to manage a network device, the NMS interprets data gathered by programs running on each network device relevant to network configuration, security, accounting, statistics, and fault logging and presents the interpretation of this data to the network administrator”, page 5 paragraph [0109]); and

generating and displaying a plurality of user interface objects on a graphical user interface (*i.e.*, GUI displays FCAPS status bars (*i.e.*, user interface object), page 21 paragraph 0232]), wherein each user interface object from the plurality of user interface objects corresponds to configuration data for one of the plurality of functional areas supported by the network device (*i.e.*, GUI provides status button for each of the five FCAPS/functional- area to represent a single network device), Fig. 7d page 21

paragraphs [0229] and [0232]).

Regarding claim 16, Kidder teaches the machine-readable medium as recited in claim 15, further comprising one or more additional instructions which, when executed by the one or more processors, cause the one or more processors to perform the step of selecting the visual appearance of a particular user interface object from the plurality of user interface objects to reflect a state of the configuration data corresponding to the particular user interface object (page 11 paragraph [0158]).

Regarding claim 1, this claim recites limitations that are similar to claim 6, same rationale of rejection is applicable.

Regarding claim 18, Kidder teaches the machine-readable medium as recited in claim 17, further comprising one or more additional instructions which, when executed by the one or more processors, cause the one or more processors to perform the step of launching one or more of a plurality of application programs to allow the user to modify the configuration data corresponding to the particular user interface object (page 5 paragraph [0110]).

Regarding claim 19, Kidder teaches the machine-readable medium as recited in claim 17, further comprising one or more additional instructions which, when executed by the one or more processors, cause the one or more processors to perform the step

Art Unit: 2155

of changing the visual appearance of the particular user interface object to indicate to the user that the configuration data corresponding to the particular user interface object has been modified (page 20 paragraph [0219]).

Regarding claim 20, Kidder teaches the machine-readable medium as recited in claim 17, further comprising one or more additional instructions which, when executed by the one or more processors, cause the one or more processors to perform the step of in response to detecting a user selection of another user interface object associated with committing changes in configuration data on network devices, sending to the network device a request for the network device to implement the modified configuration data (page 12 paragraph [0163] and page 14 paragraph [0175]).

Regarding claim 21, this claim recites limitation that is similar to claim 8, same rationale of rejection is applicable.

Regarding claim 22, Kidder teaches the machine-readable medium as recited in claim 15, further comprising one or more additional instructions which, when executed by the one or more processors, cause the one or more processors to perform the step of in response to determining that a particular functional area of the configuration data has been modified after the particular functional area of configuration data was received from the network device, changing the visual appearance of a particular user interface object from the plurality of user interface objects to visually indicate to a user that the

Art Unit: 2155

particular functional area of the configuration data has been modified after the particular functional area of configuration data was received from the network device (page 12 paragraph [0162]).

Regarding claim 23, Kidder teaches the machine-readable medium as recited in claim 15, wherein the step of determining a plurality of functional areas supported by a network device includes querying the network device to determine the plurality of functional areas supported by a network device (*page 5 paragraph [0109]*).

Regarding claim 24, Kidder teaches the machine-readable medium as recited in claim 15, wherein the step of determining a plurality of functional areas supported by a network device includes determining a plurality of functional areas supported by a network device and for which the network device and a client have compatible configuration application program interfaces (*page 5 paragraph [0110]*).

Regarding claim 25, Kidder teaches the machine-readable medium as recited in claim 15, further comprising one or more additional instructions which, when executed by the one or more processors, cause the one or more processors to perform the steps of: in response to detecting a user selection of a particular user interface object from the plurality of user interface objects, retrieving, from the network device, configuration data corresponding to the particular user interface object, displaying the configuration data on a graphical user interface (*page 21 paragraph [0234]*); and

in response to detecting that the configuration data retrieved from the network device is no longer consistent with configuration data implemented on the network device, changing the visual appearance of the particular user interface object to indicate that the configuration data retrieved from the network device is no longer consistent with configuration data implemented on the network device (page 20 paragraph [0219]).

Regarding claim 26, Kidder teaches an apparatus for managing network device configuration data, the apparatus comprising a memory storing instructions which, when executed by one or more processors, cause the one or more processors to perform the steps of:

determining a plurality of functional areas supported by a network device (*i.e.*, “to manage a network device, the NMS interprets data gathered by programs running on each network device relevant to network configuration, security, accounting, statistics, and fault logging and presents the interpretation of this data to the network administrator”, page 5 paragraph [0109]); and

generating and displaying a plurality of user interface objects on a graphical user interface (*i.e.*, GUI displays FCAPS status bars (*i.e.*, user interface object), page 21 paragraph 0232]), wherein each user interface object from the plurality of user interface objects corresponds to configuration data for one of the plurality of functional areas supported by the network device (*i.e.*, GUI provides status button for each of the five FCAPS/functional- area to represent a single network device, Fig. 7d page 21

paragraphs [0229] and [0232]).

Regarding claim 27, Kidder teaches the apparatus as recited in claim 26, wherein the memory further comprises one or more additional instructions which, when executed by the one or more processors, cause the one or more processors to perform the step of selecting the visual appearance of a particular user interface object from the plurality of user interface objects to reflect a state of the configuration data corresponding to the particular user interface object (page 12 paragraph [0162]).

Regarding claim 28, this claim recites limitation that is similar to claim 6, same rationale of rejection is applicable.

Regarding claim 29, this claim recites limitation that is similar to claim 7, same rationale of rejection is applicable.

Regarding claim 30, this claim recites limitation that is similar to claim 8, same rationale of rejection is applicable.

Regarding claims 31-36, those claims recite limitations that are similar to claims 9-14, same rationale of rejection is applicable.

Regarding claim 37, Kidder teaches a method for updating configuration data on a network device, wherein the configuration data includes configuration data for a plurality of functional areas supported by the network device the method comprising the machine-implemented steps of:

displaying the configuration data on a graphical user interface (*i.e.*, *GUI provides status button for each of the five FCAPS/functional- area to represent a single network device, Fig. 7d page 21 paragraphs [0229] and [0232]*);

in response to a user changing a value of a configuration data item for one of the functional areas to a new value, updating values of the same configuration data item in the other functional areas from the plurality of functional areas to the new value to create updated configuration data (page 24 paragraph [0251]); and

providing the updated configuration data to the network device (*i.e.*, *"download the configuration change to the operational network device"*, page 20 paragraph [0223]).

Regarding claim 38, Kidder teaches the method as recited in claim 37, further comprising the machine-implemented steps of:

in response to a user adding a new data item for one of the functional areas, adding the new data items to the other functional areas from the plurality of functional areas to the new value to create updated configuration data (page 15 paragraph [0183])- page 16 paragraph [0190]); and

providing the updated configuration data to the network device (page 20 paragraph [0223]).

Regarding claim 39, Kidder teaches a method for updating configuration data on a network device, wherein the configuration data includes configuration data for a plurality of functional areas supported by the network device, the method comprising the machine-implemented steps of:

displaying the configuration data on a graphical user interface (*i.e.*, *GUI provides status button for each of the five FCAPS/functional- area to represent a single network device, Fig. 7d page 21 paragraphs [0229] and [0232]*);

detecting a user selection of a user interface object that corresponds to one or more data items from a first functional area from the plurality of functional areas (*i.e.*, *administrator may select one of the FCAPS branch to cause status window 897 to display tabs/folders of data corresponding to the selected branch, Fig. 7d, page 21 paragraph [0234]-page 22 paragraph [0237]*);

in response to detecting a user selection of a graphical user interface object associated with performing a copy and paste operation, overwriting values of one or more other data items from the first functional area with values of the one or more data items to create updated configuration data (page 24 paragraphs [0251] and [0252]); and

providing the updated configuration data to the network device (page 20 paragraph [0223]).

Regarding claim 40, Kidder teaches a method for updating configuration data on a network device, wherein the configuration data includes configuration data for a functional area supported by the network device, the method comprising the machine-implemented steps of:

displaying the configuration data on a graphical user interface (*i.e.*, *GUI provides status button for each of the five FCAPS/functional- area to represent a single network device, Fig. 7d page 21 paragraphs [0229] and [0232]*);

in response to detecting a user selection of a graphical user interface object associated with performing a clone operation, generating a specified number of copies of the configuration data for a specified number of other functional areas to create updated configuration data (page 24 paragraph [0255]); and

providing the updated configuration data to the network device (page 20 paragraph [0223]).

Regarding claim 41, Kidder teaches the method as recited in claim 40, wherein values of the specified number of copies of the configuration data are the same as values of the configuration data (Fig. 9D, page 24 paragraph [0255]).

Regarding claim 42, Kidder teaches the method as recited in claim 40, further comprising the machine-implemented step of determining a value for a data item in one of the specified number of copies of the configuration data by applying an algorithm to a

value for the data item in the configuration data (page 24 paragraph [0251]).

Regarding claim 43, this claim comprises a machine-readable medium for updating configuration data on a network device, wherein the configuration data includes configuration data for a plurality of functional areas supported by the network device; the machine-readable medium carrying instructions which, when executed by one or more processors, cause the one or more processors to perform a method claim 37, discussed above, same rationale of rejection is applicable.

Regarding claim 44, this claim recites limitation that is similar to claim 38, same rationale of rejection is applicable.

Regarding claim 45, this claim comprises a machine-readable medium for updating configuration data on a network device, wherein the configuration data includes configuration data for a plurality of functional areas supported by the network device, the machine-readable medium carrying instructions which, when executed by one or more processors, cause the one or more processors to perform a method claim 39, discussed above, same rationale of rejection is applicable.

Regarding claim 46, this claim comprises a machine-readable medium for updating configuration data on a network device, wherein the configuration data includes configuration data for a functional area supported by the network device, the

Art Unit: 2155

machine-readable medium carrying instructions which, when executed by one or more processors, cause the one or more processors to perform a method claim 40, same rationale of rejection is applicable.

Regarding claim 47, this claim recites limitation that is similar to claim 41, same rationale of rejection is applicable.

Regarding claim 48, this claim recites limitation that is similar to claim 42, same rationale of rejection is applicable.

Regarding claim 49, this claim comprises an apparatus for updating configuration data on a network device, wherein the configuration data includes configuration data for a plurality of functional areas supported by the network device, the apparatus comprising a memory storing instructions which, when executed by one or more processors, cause the one or more processors to perform a method claim 37, same rationale of rejection is applicable.

Regarding claim 50, this claim recites limitation that is similar to claim 38, same rationale of rejection is applicable.

Regarding claim 51, this claim comprises an apparatus for updating configuration data on a network device, wherein the configuration data includes configuration data for

Art Unit: 2155

a plurality of functional areas supported by the network device, the apparatus comprising a memory storing instructions which, when executed by one or more processors, cause the one or more processors to perform the method claim 39, same rationale of rejection is applicable.

Regarding claims 52-54, those claims comprise an apparatus for updating configuration data on a network device, wherein the configuration data includes configuration data for a functional area supported by the network device, the apparatus comprising a memory storing instructions which, when executed by one or more processors, cause the one or more processors to perform method claims 40-42, same rationale of rejection is applicable.

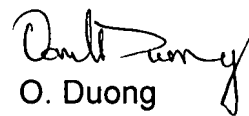
4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Oanh Duong whose telephone number is (571) 272-3983. The examiner can normally be reached on Monday- Friday, 9:30PM - 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Saleh Najjar can be reached on (571) 272-4006. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

Art Unit: 2155

For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



O. Duong
Primary Examiner
September 22, 2007